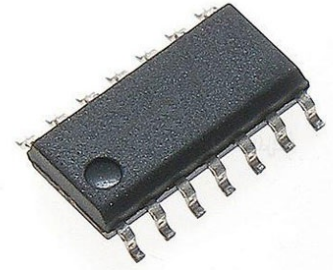



Comparator Quad R-R O/P $\pm 16V/32V$ Automotive 14-Pin SOIC T/R



Images are for reference only

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP14
Product Type:	Linear Displacement Sensors
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

[Inquiry](#)

General Description

The LM2901x-Q1 family of devices consists of four independent voltage comparators, designed to operate from a single power supply over a wide range of voltages.

Operation from dual supplies is possible, provided the difference between the two supplies is 2 V to 36 V, and V_{CC} is at least 1.5 V more positive than the input common-mode voltage. Current drain is independent of the supply voltage.

The outputs can be connected to other open-collector outputs to achieve wired-AND relationships.

LM2901V-Q1 supports higher 32 V supply voltage and LM2901AV-Q1 supports the higher 32 V supply voltage and lower offset voltage.

Key Features

Qualified for automotive applications

AEC-Q100 Qualified with the following results:

Device temperature grade 1: -40°C to 125°C ambient operating temperature range

Device HBM ESD classification levels:

H1B for "AV" version

H1C for all other versions

Device CDM ESD classification level C6

Single supply or dual supplies

Low supply-current drain independent of supply voltage 0.8mA (typical)

Low input bias current 25 nA (typical)

Low input offset current 2 nA (typical)

Low input offset voltage 2mV Typ (typical)

Common-mode input voltage range includes ground

Differential input voltage range equal to maximum-rated supply voltage ± 36 V

Low output saturation voltage

Output compatible with TTL, MOS, and CMOS

For single version in 5-pin SOT-23, see the TL331-Q1 (SLVS969)

Recommended For You

LM311MX

Texas Instruments, Inc

SOP8

LMV7219M5

Texas Instruments, Inc

SOT23-5

LM348D

Texas Instruments, Inc

SOP-14

LM224N

Texas Instruments, Inc

DIP14

LM239J

Texas Instruments, Inc

CDIP14

LMV331M5

Texas Instruments, Inc

SOT23-5

LM393ADR

Texas Instruments, Inc

SOP8

LM293DR

Texas Instruments, Inc

SOP8

LM293D

Texas Instruments, Inc

SOP8

LMV824MEX

Texas Instruments, Inc

TSSOP

LMV358M

Texas Instruments, Inc

SOP8

LMV321M5

Texas Instruments, Inc

SOT23-5

LM741H

Texas Instruments, Inc

CAN8

LMI93AH

Texas Instruments, Inc

CAN8

LMI11H/NOPB

Texas Instruments, Inc

CAN8